

Product datasheet for PH312473

RASGRP1 (NM_005739) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	RASGRP1 MS Standard C13 and N15-labeled recombinant protein (NP_005730)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC212473
Predicted MW:	90.4 kDa
Protein Sequence:	>RC212473 protein sequence Red=Cloning site Green=Tags(s)

MGTLGKAREAPRKPSHGCRASAKARLEAKPANSFPSPHSLAHITQFRMMVSLGHLAKGASLDDLIDSCI
QSFADAGNLCRSNQLLQVMLTMHRIVISSAELLQKVITLYKDALAKNSPGLCLKICYFVRYWITEFWVMF
KMDASLTDMEEFQELVKAKGEELHCLRIDTTQINARDWSRKLQRIKSNTSKKRKVSLLFDHLEPEELS
EHLTYLEFKSFRRI SFSDYQNYLVNSCVKENPTMERSIALCNGISQWVQMLVSRPTQLRAEVFIKFIQ
VAQKLHQLQNFNTLMAVIGGLCHSSISRLKETSSHVPHEINKVLGEMTELLSSSRNYDNYRRAYGECTDF
KIPILGVHLKDLISLYEAMPDYLEDGKVN VHLLALYNHISELVQLQEVAPPLEANKDLVHLLTSLDLY
YTEDEIYELSYAREPRNHRAPPLTPSKPPVVVDWASGVSPKDPKTI SKHVQRMVDSVFKNYDHDQDGYI
SQEEFEKIAASFPPSFCVMDKDREGLISRDEITAYFMRASSIYSKLGLGFPHNFQETTYLKPTFCDCNAG
FLWGVIKQGYRCKDCGMNCHKQCKDLVVFECKKRAKNPVAPTENNTSVGPVSNLCSLGAKDLLHAPEEGP
FTFPNGEAVEHGEE SKDRTIML MGVSQKISRLKRAVAHKATQTESQPWIGSEGPSGFVLSPPRKAQ
DTLYVLPSPSPVLRKRAFVKWENKDSL IKSKEELRHLRLPTYQELEQEINTLKADNDALKIQLK
YAQKKIESLQLEKSNHVLAQMEQGDCS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_005730



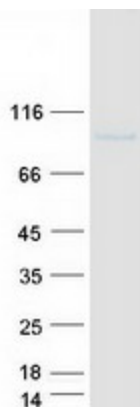
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RefSeq Size:	5048
RefSeq ORF:	2391
Synonyms:	CALDAG-GEFI; CALDAG-GEFII; IMD64; RASGRP
Locus ID:	10125
UniProt ID:	O95267 , B2RA89
Cytogenetics:	15q14

Summary: This gene is a member of a family of genes characterized by the presence of a Ras superfamily guanine nucleotide exchange factor (GEF) domain. It functions as a diacylglycerol (DAG)-regulated nucleotide exchange factor specifically activating Ras through the exchange of bound GDP for GTP. It activates the Erk/MAP kinase cascade and regulates T-cells and B-cells development, homeostasis and differentiation. Alternatively spliced transcript variants encoding different isoforms have been identified. Altered expression of the different isoforms of this protein may be a cause of susceptibility to systemic lupus erythematosus (SLE). [provided by RefSeq, Jul 2008]

Protein Pathways: MAPK signaling pathway, T cell receptor signaling pathway

Product images:



Coomassie blue staining of purified RASGRP1 protein (Cat# [TP312473]). The protein was produced from HEK293T cells transfected with RASGRP1 cDNA clone (Cat# [RC212473]) using MegaTran 2.0 (Cat# [TT210002]).